

**Appendix 8 Taxonomic Data Quality Assurance/Quality
Control Reports (supplied by EcoAnalysts Inc.)**

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UIN	TAXON	TIN	T1	Relative Abun T1	T2	Relative Abun T2	In Common
6170.1-1	Achnanthes spp.		12	0.038339	34	0.112211	3.83%
6170.1-1	Amphora spp.		23	0.073482	27	0.089109	7.35%
6170.1-1	Cocconeis sp.		27	0.086262	0	0	0.00%
6170.1-1	Diploneis spp.		7	0.022364	38	0.125413	2.24%
6170.1-1	Fragilaria spp.		0	0	2	0.006601	0.00%
6170.1-1	Gyrosigma spp.		34	0.108626	0	0	0.00%
6170.1-1	Leptolyngbya sp.		0	0	1	0.0033	0.00%
6170.1-1	Mastogloia spp.		30	0.095847	32	0.105611	9.58%
6170.1-1	Melosira spp.		2	0.00639	4	0.013201	0.64%
6170.1-1	Navicula spp.		60	0.191693	47	0.155116	15.51%
6170.1-1	Nitzschia spp.		3	0.009585	51	0.168317	0.96%
6170.1-1	Oscillatoria sp.		0	0	1	0.0033	0.00%
6170.1-1	Paralia sp.		1	0.003195	0	0	0.00%
6170.1-1	Rhopalodia spp.		34	0.108626	41	0.135314	10.86%
6170.1-1	soft algae		15	0.047923	0	0	0.00%
6170.1-1	Tabularia tabulata		0	0	4	0.013201	0.00%
6170.1-1	Tiny Undetermined Pennate		24	0.076677	0	0	0.00%
6170.1-1	Undetermined Centric		0	0	1	0.0033	0.00%
6170.1-1	Undetermined Pennate		41	0.13099	20	0.066007	6.60%
			313		303		57.58%
6170.1-2	Amphora spp.		3	0.02459	4	0.043478	2.46%
6170.1-2	Aulacoseira spp.		0	0	1	0.01087	0.00%
6170.1-2	Biddulphia sp.		2	0.016393	0	0	0.00%
6170.1-2	Cocconeis sp.		3	0.02459	0	0	0.00%
6170.1-2	Coccinodiscus sp.		0	0	1	0.01087	0.00%
6170.1-2	Cyclotella sp.		4	0.032787	0	0	0.00%
6170.1-2	Cymbella spp.		0	0	1	0.01087	0.00%
6170.1-2	Diploneis spp.		2	0.016393	0	0	0.00%
6170.1-2	Fragilaria spp.		0	0	1	0.01087	0.00%
6170.1-2	Gyrosigma spp.		45	0.368852	33	0.358696	35.87%
6170.1-2	Mastogloia spp.		2	0.016393	2	0.021739	1.64%
6170.1-2	Melosira spp.		25	0.204918	18	0.195652	19.57%
6170.1-2	Navicula spp.		6	0.04918	6	0.065217	4.92%
6170.1-2	Nitzschia spp.		15	0.122951	17	0.184783	12.30%
6170.1-2	Pleurosigma sp.		4	0.032787	0	0	0.00%
6170.1-2	Rhopalodia spp.		3	0.02459	0	0	0.00%
6170.1-2	Tabularia tabulata		0	0	4	0.043478	0.00%
6170.1-2	Undetermined Pennate		8	0.065574	4	0.043478	4.35%
			122		92		81.09%
6170.1-5	Achnanthes spp.		0	0	3	0.01	0.00%
6170.1-5	Amphora spp.		4	0.013333	3	0.01	1.00%
6170.1-5	Aulacoseira spp.		0	0	1	0.003333	0.00%
6170.1-5	Bacillaria paradoxa		0	0	18	0.06	0.00%
6170.1-5	Caloneis spp.		9	0.03	4	0.013333	1.33%
6170.1-5	Cocconeis sp.		4	0.013333	0	0	0.00%
6170.1-5	Coccinodiscus sp.		1	0.003333	0	0	0.00%
6170.1-5	Cyclotella sp.		1	0.003333	0	0	0.00%
6170.1-5	Gyrosigma spp.		194	0.646667	74	0.246667	24.67%
6170.1-5	Leptolyngbya sp.		0	0	4	0.013333	0.00%
6170.1-5	Mastogloia spp.		6	0.02	15	0.05	2.00%
6170.1-5	Melosira spp.		32	0.106667	32	0.106667	10.67%
6170.1-5	Navicula spp.		8	0.026667	27	0.09	2.67%
6170.1-5	Neidium spp.		0	0	2	0.006667	0.00%
6170.1-5	Nitzschia spp.		4	0.013333	97	0.323333	1.33%
6170.1-5	Pleurosigma sp.		1	0.003333	0	0	0.00%
6170.1-5	Rhopalodia sp.		1	0.003333	0	0	0.00%
6170.1-5	Rhopalodia spp.		2	0.006667	0	0	0.00%
6170.1-5	soft algae		1	0.003333	0	0	0.00%
6170.1-5	Tabularia tabulata		0	0	3	0.01	0.00%
6170.1-5	Undetermined Pennate		32	0.106667	17	0.056667	5.67%
			300		300		49.33%

6170.1-1 Upon QC reconciliation, it was determined that "Tiny Undetermined Pennate Diatoms" were actually Achnanthes sp. Original taxonomist had difficulty distinguishing between Cocconeis, Diploneis, and Rhopalodia. Also raphe for differentiating Nitzschia and Gyrosigma were missed. Taxonomists "soft algae" was identified as Oscillatoria.

6170.1-2 Differences in this sample are accounted for by subsampling variation.

6170.1-5 It was determined that "Undetermined Pennate Diatoms" were actually Bacillaria paradoxa, Mastogloia, and Navicula. Raphe for differentiating Nitzschia and Gyrosigma were missed.

After full QC reconciliation and discussion amongst three taxonomists, it was determined that all samples should be re-analyzed, taking into account the difficulties encountered in the initial identifications. All samples were redone and photos taken of all encountered taxa to ensure taxonomic consistency across the sample set.

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